

SEIJI MOTOJIMA, et al.
Application No.: 09/403,894
Page 3

PATENT

REMARKS

Claims 19, 24-30, 32-34 and 36 are pending.

Applicants note with appreciation the indicated allowability of claims 19, 24-25, 29 and 31.

The Examiner pointed out that claims 19 and 29 needed to be amended to correct typographical errors contained therein. Accordingly, applicants have amended claims 19 and 29 to correct the typographical errors.

The Examiner indicated that claim 31 is directed to allowable subject matter. Accordingly, applicants have canceled claim 31 and added the subject matter recited therein to claim 26. Accordingly, it is respectfully submitted that claim 26 is now allowable. Claims 27-30, 32-34 and 36 depend on claim 26 and therefore, they are allowable for at least the reasons claim 26 is allowable.

CONCLUSION:

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,



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SF 1435785 v1

SEIJI MOTOJIMA, et al.
Application No.: 09/403,894
Page 4

PATENT

VERSION WITH MARKINGS TO SHOW CHANGES MADE

19. (Twice Amended) A method of manufacturing carbon fiber coils comprising:

placing a solid catalyst within a reaction chamber;
supplying stock gas and a catalytic gas to the reaction chamber;
applying voltage to the solid catalyst to charge [change] the solid catalyst; and
heating the interior of the chamber to grow carbon fiber coils from the stock gas, wherein an exterior of the reaction chamber is substantially free of a magnetic field during the heating.

26. (Twice Amended) An apparatus for manufacturing carbon fiber coils from a stock gas, which is subjected to thermal decomposition to generate solid carbon, and a catalytic gas, which promotes thermal decomposition of the stock gas, the apparatus comprising:

a reaction chamber, to which the stock gas and the catalytic gas are supplied through a port;

a solid catalyst located within the reaction chamber;

a power source, which is external to the reaction chamber, for applying voltage to the solid catalyst; and

a heating device for heating the interior of the reaction chamber to grow carbon fiber coils from the stock gas, wherein the heating device produces substantially no magnetic field in the reaction chamber[.];

wherein the catalytic gas contains at least one of sulfur compound and phosphorus compound, and the sulfur compound and phosphorus compound include thiophene, hydrogen sulfide, methylmercaptan, and phosphorus trichloride.

29. (Twice Amended) The apparatus according to claim 28, wherein the catalyst contains microcrystalline [of] nickel.

SF 1435785 v1